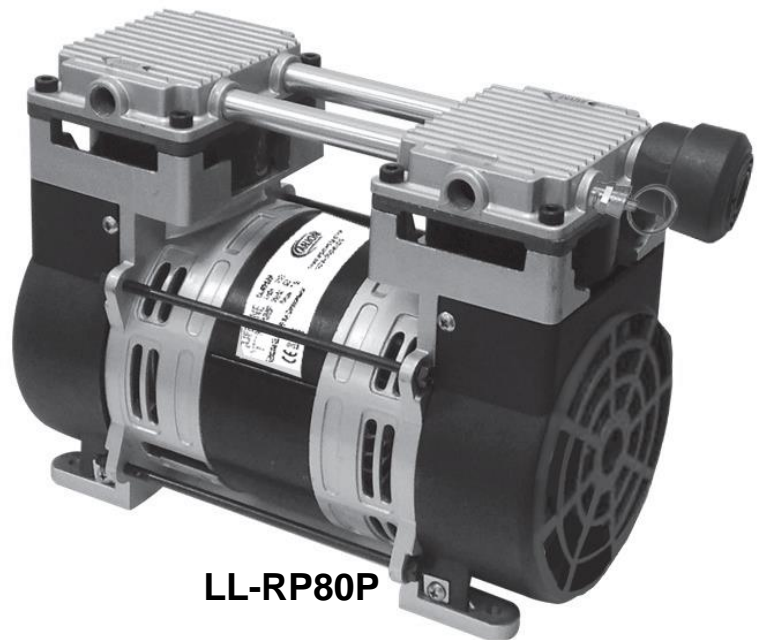




LL-RP60P



LL-RP80P

LIFELINE
AIR PUMP

LL-RP60P / LL-RP80P MANUAL

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PLEASE READ THIS MANUAL

SAVE FOR FUTURE REFERENCE

THE INSTRUCTIONS AND WARNINGS HEREIN PRESUME EXISTING FAMILIARITY WITH THE DESIGN AND FUNCTION OF THESE AND SIMILAR PRODUCTS AND THEIR COMPONENTS.

The model(s) represented in this manual may have additions and/or modifications made at any time. Pictures represent a standard unit series and an actual unit may vary slightly. This manual is based on the latest products' information available at the time of creation or last revision. It is believed to be generally accurate and reliable. Please consult customer service representatives at Anjon Manufacturing if detailed information is desired, or whenever there is a question about a given unit's configuration or performance specifications at **1-800-553-5605**.

Introduction

Congratulations on your purchase of **Anjon Manufacturing's LifeLine Air Pump Compressor!** Thank you for being a valued customer! We are grateful for the opportunity to provide you with superior products, such as the LifeLine Air Pump Compressor that is manufactured to the highest standards using quality materials!

LIFELINE AIR COMPRESSOR SPECIFICATIONS CHART

MODEL	VOLTS	AMPS	HERTZ	PUMP DIMENSIONS	POWER CORD LENGTH
LL-RP60P	120	3.5	60	10" x 6" x 7"	6'
LL-RP80P	120	7.5	60	10" x 7" x 7.5"	6'



LIFELINE AIR COMPRESSOR WATER DEPTH PRESSURE CHART

WATER DEPTH	PSI	LL-RP60P	LL-RP80P
0'	0	4.1 CFM	6.9 CFM
10'	5	3.9 CFM	6.7 CFM
25'	10	3.5 CFM	6.3 CFM
40'	20	3.0 CFM	5.7 CFM

Safety First

It is recommended that you thoroughly read and understand this manual prior to first startup and before you attempt to service the model to which **LifeLine Air Pump Compressor** this applies.

THE FOLLOWING CAUTIONS AND WARNINGS ARE FOR YOUR OWN SAFETY!


WARNING


INJURY HAZARD

Install proper safety guards as needed. Always service and clean this product in a well-ventilated area.

Keep fingers and objects away from openings and rotating parts on this product.

When provided, terminal covers for the motor must be in place for safe operation.

This product's surface becomes very hot during operation and needs proper ventilation. Always allow this product to cool-down before handling,

The air stream that this product generates may contain liquid or solid material that can cause serious injury to the skin and eyes. Always use gloves and proper eye protection.

The sound level created by the motor of this product may exceed 70 dBA. Wear hearing protection when near this product while it is operating if sensitive to sound.

Failure to follow these instructions can result in burns, eye injury, or other serious injury.


WARNING




ELECTRICAL SHOCK HAZARD

This product must be properly grounded!


Do not modify the plug provided. Only plug into a GFCI electrical outlet. If you do not have a GFCI electrical outlet, we recommend you have one properly installed by a qualified electrician.

If the cord should ever need a repair or replacement, please contact Anjon Manufacturing's Customer Service Representatives for further instructions on how to have your compressor serviced. **NEVER** modify the cord or plug on your compressor!

Be sure that your source of power is correctly wired and in proper operating condition. Never hard-wire or permanently connect this product to a power source!

Failure to follow these instructions can result in fire, a serious injury from electrical shock, or even death.

To avoid damage to this product, **NEVER** lubricate any component in your LifeLine Air Compressor! All moving parts are permanently lubricated.



CAUTION!

To avoid damage to the compressor or personal injury, always try rotating the fan by HAND prior to connecting the unit to the power source. Check for suction at the air inlet port by placing your finger over the port while you turn the fan by hand. You should feel a slight suction with each rotation of the fan. As you turn the fan, if you do NOT feel suction, and/or if you feel/hear any knocking, or notice an inadequate environment; **DO NOT CONNECT THE UNIT TO A POWER SOURCE!** Refer further into this manual for troubleshooting on page 6 to find the possible error.

NEVER OPERATE THIS AIR COMPRESSOR WHILE CONNECTED TO AN EXTENSION CORD!

Box Contents:

- LifeLine Air Compressor (Model: LL-RP60P / LL-RP80P)
- Shock Absorbing Mounts (x4)
- Air Filter (x1)
- 50 psi Pressure Release Valve (x1)



Not Included:

- Air Fitting required is as follows:
- LL-RP60P: 1/4" Male NPT / 3/8" Barb
- LL-RP80P: 1/4" Male NPT / 5/8" Barb

Recommended Air Hose:

- Recommended as follows:
- LL-RP60P: 3/8" LifeLine Weighted Air Hose
- LL-RP80P: 5/8" LifeLine Weighted Air Hose

MISSING PARTS?
THERE IS NO NEED TO RETURN THIS PRODUCT TO YOUR RETAILER.
CALL US AT 1-800-553-5605 AND WE WILL MAKE IT RIGHT!

Installation of Box Contents and Air Fitting

Install air filter only into the inlet port. It is highly recommended to install the pressure relief valve included into the exhaust port to bleed off excess pressure, in case of a blocked line. Check valves may be required to prevent back flow through the compressor. To avoid serious injury, always bleed your plumbing lines before servicing your compressor



Install Shock Absorbing Mounts
(Prepare location the Air Compressor will be mounted)



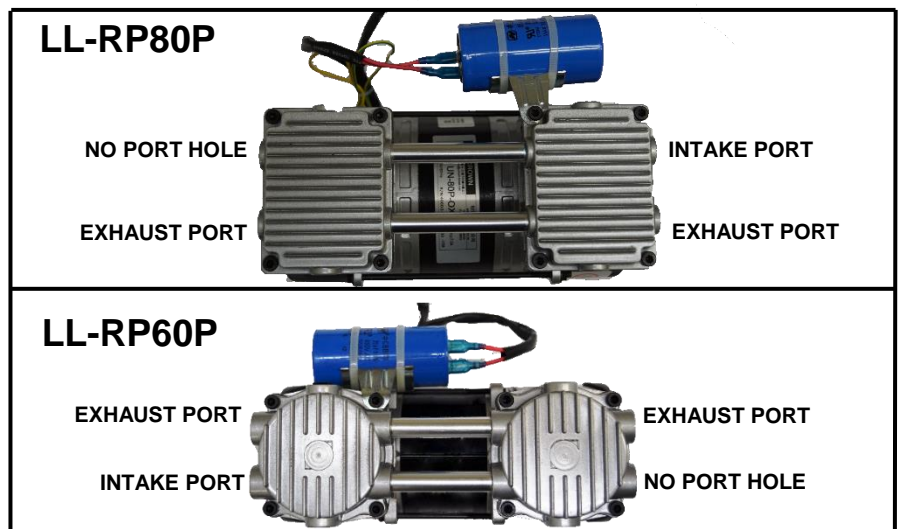
Install Pressure Release Valve
(Exhaust Port opposite of desired Air Fitting location)



Install Air Filter
(Intake Port)



Install Air Fitting
(Not Included)
(Exhaust Port opposite of desired Pressure Release Valve location)



Installation of LifeLine Air Compressor

Make sure you have the proper installation conditions. The compressor needs to be installed in a clean, dry location. Mount the compressor to a stable, rigid operating surface protected from dirt and moisture and from the outdoor environment such as rain, snow and elevated from flood-prone areas in a well-ventilated enclosure. The compressor must be installed no closer than 12" from a wall or another compressor to allow ample circulation of air across the compressors cylinders and heads

Ensure the compressor is clear of any objects that may impede or block air flow, and avoid areas for installation that are subject to excessive dirt or dust. Cumulated dirt /dust **will** result in the blocking of air flow. Adequate ventilation and cooling air flow across the compressor must be provided to keep the compressor from overheating and causing premature damage. The thermal protector within the motor will interrupt the electrical current when the motor overheats. Ambient Air temperature (temperature readings 4" away from any surface of the compressor) must not exceed 104°F (40°C).

Remove plugs as necessary from the Intake and Exhaust ports. Connect your tubing with air fittings that are the same size, or larger, than the products threaded ports (refer to the recommended hose and required fittings specifications). Be sure to connect the intake and exhaust plumbing to the correct inlet and outlet ports. Ports will not support plumbing without proper installment of plumbing fittings into the ports on your compressor.

Electrical Requirements

Make sure that the voltage output from your power supply complies with that listed on label on the compressor. All cords with plugs must be plugged into a GFCI outlet that is properly installed and grounded in accordance with all local codes and ordinances. It is your responsibility to contact a qualified electrician and assure that the electrical installation is adequate and in conformance with all national and local codes and ordinances.

A hard-wired installation is not recommended and never operate this air compressor while connected to an extension cord; both will result in the warranty being voided!

Operation

It is your responsibility to operate this compressor at the recommended pressures and acceptable ambient temperatures. Do not start the compressor against a vacuum or a pressure load. Follow this procedure for startup of a new installation, after changes to an existing installation have been made, and/or after service or repairs have been performed:

1. The instructions contained within this manual must be read and understood before start-up.
2. Start compressor and watch for excessive vibration and noises. If either is present, stop compressor immediately and correct the problem. (*Refer to the troubleshooting guide.*)
3. Check all fittings and plumbing for any air leaks
4. Observe general compressor operation closely for first hour and then frequently for next seven hours. If any irregular circumstances occur, stop compressor and correct the problem.

If motor fails to start or slows down significantly under load, shut off and disconnect from power supply. Check that the supply voltage is correct and verify motor is turning in proper direction. Check plug, cord and switch for damage; the thermal protection function may have been tripped. If the thermal protection function engaged, the motor will restart automatically after cooling-down.

Maintenance

It is your responsibility for proper maintenance on this compressor. You must conduct regular routine inspections and make necessary repairs to your compressor in order to maintain proper operations. Make sure that the pressure is released from product before starting maintenance.

1. Disconnect compressor from its electrical power supply.
2. Vent all air lines.
3. Remove filter cover.
4. Remove and replace filter, as necessary.

Clean the filter and determine how frequently filters should be checked during future operation. The changing of seasons and can affect the environment the compressor operates in. We recommend checking the filter once a month, regardless of the environment the compressor is in. Clean or replace filters as necessary. This upkeep will help assure the product to optimum performance. We recommend you perform the following service to your **LifeLine Air Pump Air Compressor** after 5000 hours, or 6 – 7 continuous months, of run-time to minimize unexpected downtime.

- Replace the Connecting Rod, Eccentric & Bearing Assembly [#1*]
- Replace the Flapper Valves [#12*]
- Replace the O-Rings for Head (*Head Gasket*) [#7*]
- Replace the O-rings for Valve Plates [#15*].

**Refer to the service parts list on the exploded diagram for correct replacement part number*

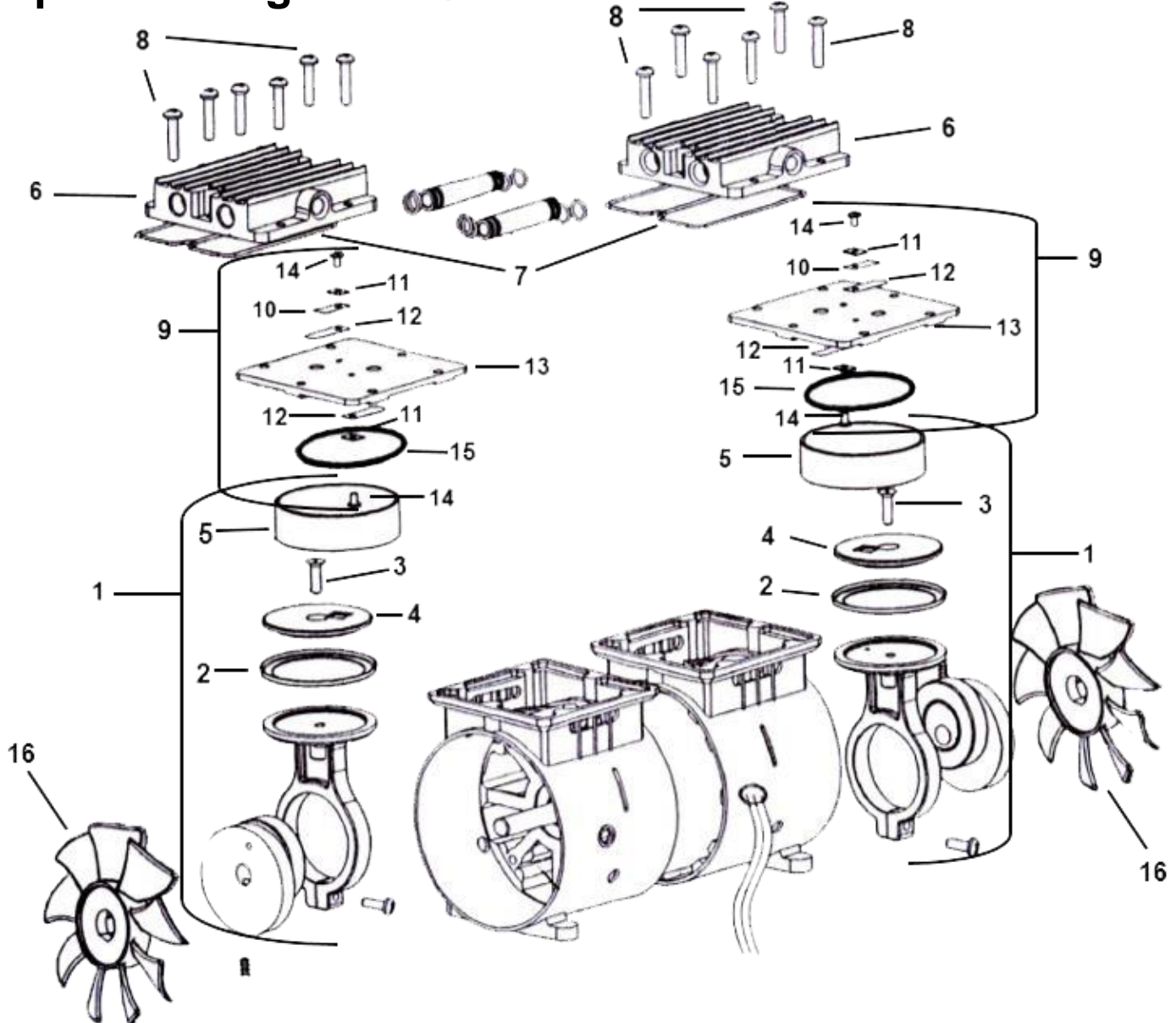
Failure to maintain clean air filters elements will lead to clogging which will cause excessive heat and untimely failure of the compressor. **NEVER** lubricate any component in your LifeLine Air Compressor!

Troubleshooting Guide

If you are having a problem with your compressor, use this table to help determine the cause(s):

PROBLEMS					POSSIBLE CAUSES	CORRECTIVE ACTIONS
LOW FLOW	LOW PRESSURE	UNIT WILL NOT START	MOTOR OVERHEATS	LOUD UNIT		
			X		HIGH VOLTAGE AT COMPRESSOR	REDUCE VOLTAGE
X	X	X	X		LOW VOLTAGE AT COMPRESSOR	INCREASE VOLTAGE
X	X			X	DAMAGED VALVES	REPLACE FLAPPER VALVES
X	X			X	DEBRIS IN VALVES	REMOVE DEBRIS AND CHECK FOR VALVE DAMAGE
X	X			X	DAMAGED GASKETS	REPLACE GASKETS
X	X			X	WORN CUP	REPLACE PISTON CUP
X	X			X	LOOSE HEAD SCREWS	TIGHTEN HEAD SCREWS
			X		BROKEN FAN	REPLACE FAN
		X	X	X	BENT MOTOR SHAFT	REPLACE ENTIRE UNIT
		X	X		DAMAGED COMPACITOR	REPLACE COMPACITOR
X	X				LOOSE FITTINGS	TIGHTEN FITTINGS
			X		INSUFFICIENT VENTILATION IN ENCLOSURE	INCREASE AIR CIRCULATION TO ENCLOSURE
		X		X	WORN BEARINGS	REPLACE ECCENTRIC BEARING ASSEMBLY

Exploded Diagram & Service Parts List



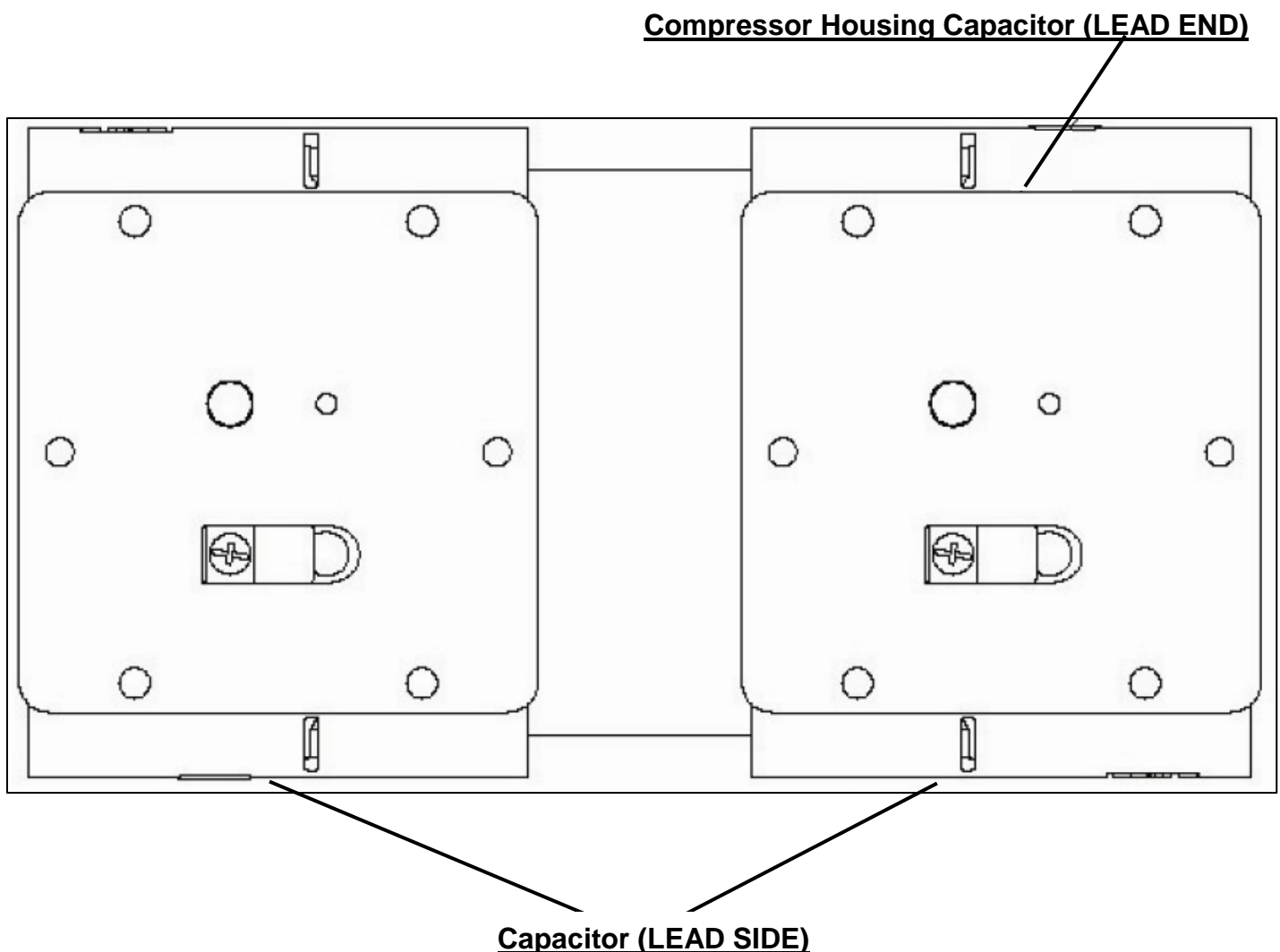
ITEM NO.	QTY. PER UNIT	DESCRIPTION
1	2	CONNECTING ROD & ECCENTRIC WHEEL & BEARING ASSEMBLY
2	2	PISTON CUP
3	2	PISTON CUP RETAINER SCREWS
4	2	PISTON CUP RETAINER
5	2	CYLINDER SLEEVE
6	2	LEFT HEAD / RIGHT HEAD
7	2	O-RING FOR HEAD (HEAD GASKET)
8	12	HEAD SCREWS
9	2	VALVE PLATE ASSEMBLY
10	2	VALVE RESTRAINT
11	4	VALVE KEEPER STRIP
12	4	FLAPPER VALVE - INTAKE & EXHAUST
13	2	VALVE PLATE ASSEMBLY
14	4	FLAPPER VALVE SCREWS
15	2	O-RING FOR VALVE PLATE
16	2	FAN

Disassemble & Reassemble the LL-RP60P / LL-RP80P

Required tools and Materials:

- Torque Wrench with a Nm Scale (Newton Meter) for Head Screws [#8*], Connecting Rod [#1*], Flapper Valve Screws [#14*], and Pipe Plugs.
- RTD500CN Driver for the Head Screws [#8*]
- Allen Wrench Attachment (S3) for Torque Wrench for Eccentric Wheel & Bearing Assembly Screws [#1*].
- Phillips Driver Attachment (+) attachment for Torque Wrench for Flapper Valve Screws [#14*].
- Standard Phillips Screwdriver (+) for retainer screws.
- Soft & Clean Cloths.

**Refer to the service parts list on the exploded diagram for correct replacement part number*

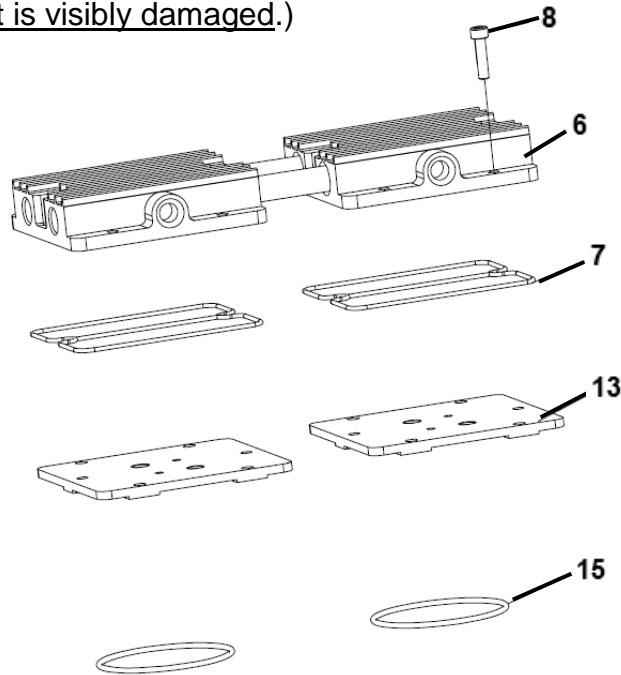


Component Repair

Servicing the Head, Valve Plate, and Connecting Rod and Bearing Assembly (The Head would need to be replaced only if it is visibly damaged.)

Component Parts Required:

- Head Screws [#8*]
- Head (if damaged) [#6*]
- O-ring for Head (Head Gasket) [#7*]
- Valve Plate Assembly [#13*]
(or Individual Flapper Valves** [#12*])
- O-Ring for Valve Plate [#15*]
- Flapper Valve Screw(s)** [#14*]



*Refer to the Service Parts List on the Exploded Diagram for correct replacement Service Part Number.

**Non-Pictured Service Part

Servicing the Head

1. Disconnect the power.
2. Disconnect all airlines and remove compressor from the enclosure.
3. Remove all Head Screws [#8*] that fasten the Head [#6*] to the compressor housing.
4. Carefully separate the Head [#6*] from the compressor body.
5. Carefully separate the Valve Plate Assembly [#13*] from the Head(s) [#6*].
6. Remove the O-ring for Head (Head Gasket) [#7*] and replace with.
7. Turn the Valve Plates [#13*] over and replace the O-Rings for Valve Plate [#13*].

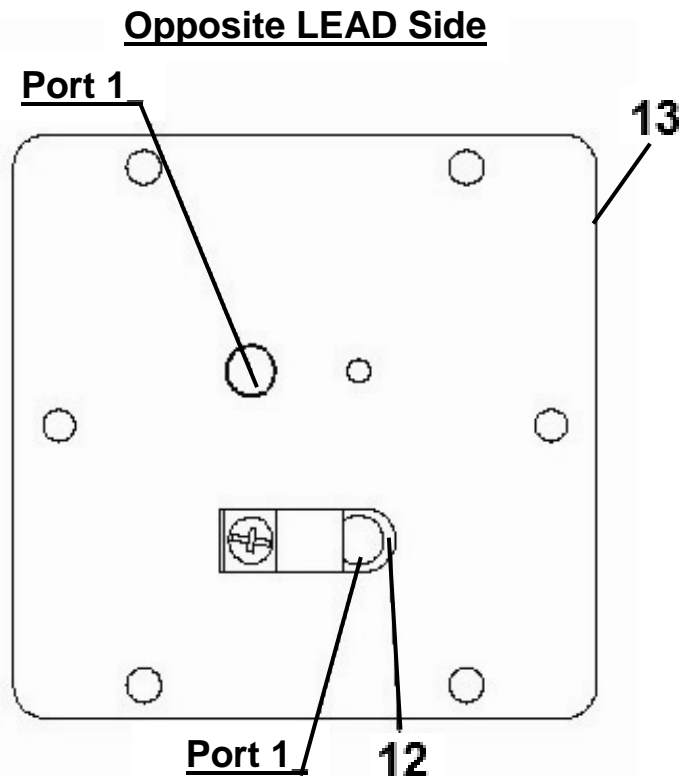
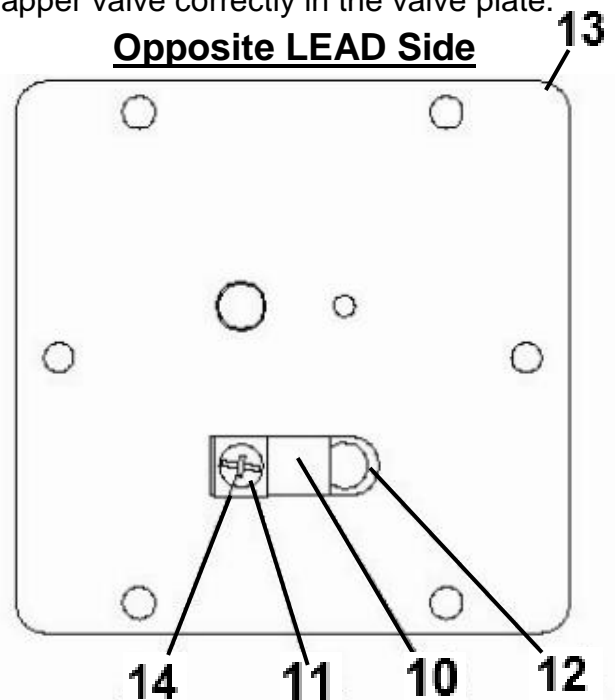
*Refer to the service parts list on the exploded diagram for correct replacement part number

⚠ Attention: If you are replacing the Head [#6*] and O-Ring for Head (head gaskets) [#7*] only, see the assembly instructions on page 19. To replace the Flapper Valves [#12*] and Connecting Rod & Eccentric Assemblies [#1*], continue to pages 10–14.

Servicing the Valve Plate Assembly (Top-Side)

Note: We recommend you remove and replace one flapper valve at a time. This will help to simplify the repair process and orient the flapper valve correctly in the valve plate.

1. If you are replacing a Flapper Valve on the top-side of the Valve Plate (side facing the head), remove the Flapper Valve Screw(s) [#14*], with a Standard Phillips Screwdriver (+). Lift off the Valve Keeper Strip [#11*], lift off the Valve Restraint [#10*], and lift off the Flapper Valve [#12*].
2. Remove any debris from the Valve Plate [#13] with fish-safe cleaning chemicals. (Soaps and detergents should not be used due to the potential for corrosion from soap residue.)
3. Place the Valve Plate [#13*] on the compressor housing and orient it as illustrated. Make sure the O-ring for Head (*Head Gasket*) [#7*] faces towards the Head**[#6*], and the O-ring for Valve Plate**[#15*] faces towards the Cylinder Sleeve** [#5*]. Note the orientation of the valve ports.
4. Orient a new Flapper Valve. [#12*] over Port 1. Refer to the figure to orient the location of at the end of the Flapper Valve. [#12*].



*Refer to the service parts list on the exploded diagram for correct replacement part number

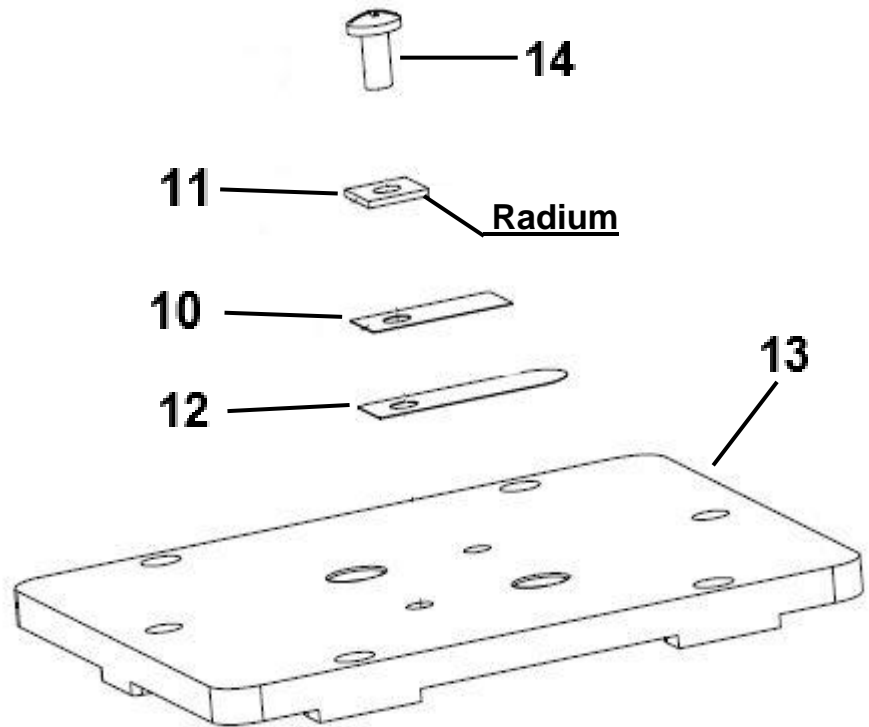
5. Place a Valve Restraint [#10*] over the Flapper Valve [#12*].

6. Place a Valve Keeper Strip [#11*] over the Valve Restraint [#10*] observing that the Valve Keeper Strip's **Radium** is facing Valve Restraint and oriented as shown in the illustration.

7. Line up the screw holes in all the valve components and fix the Flapper Valve Screws [#14*] on the Valve Plate [#13*].

8. Make sure the Flapper Valve [#12*] is centered over the port of the Valve Plate [#13*] and that all of the other components line up with the Flapper Valve [#12*].

9. Tighten the Flapper Valve Screws [#14*] with a Torque Wrench with an Nm Scale (Newton Meter) to **1.3 Nm**.



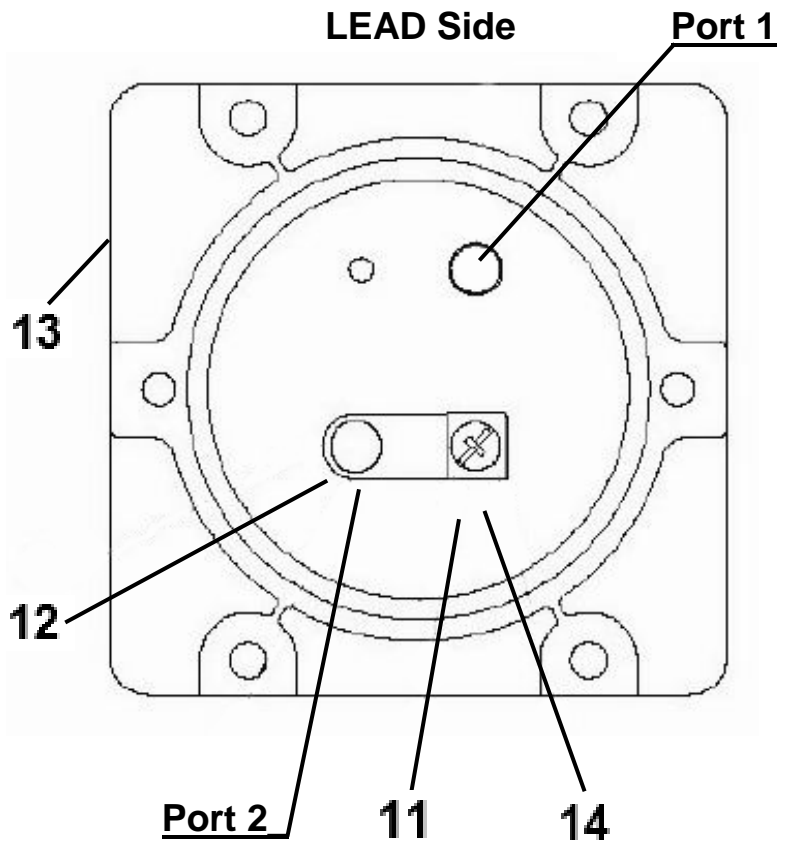
**Refer to the service parts list on the exploded diagram for correct replacement part number*



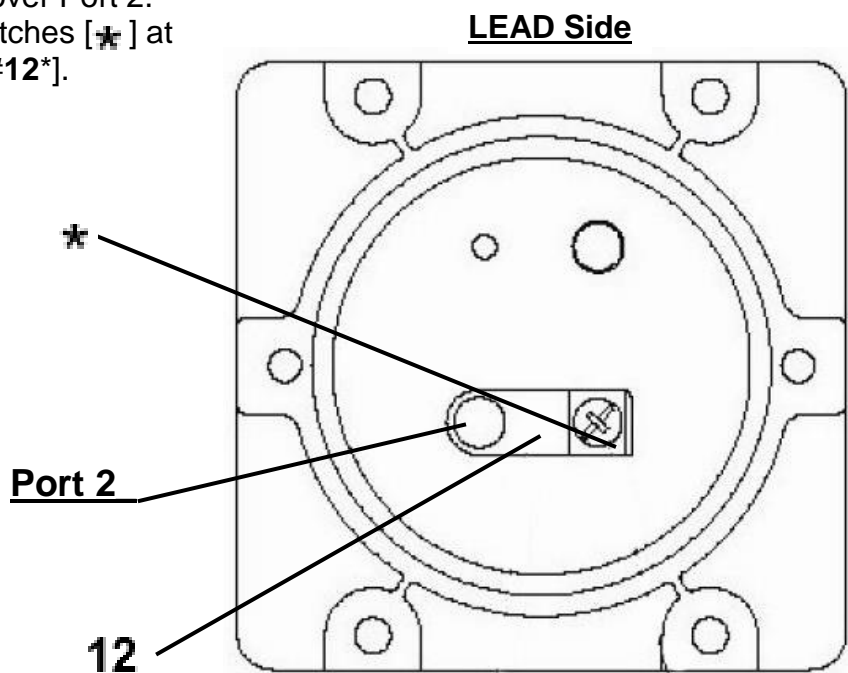
Caution: Do not over-tighten the Flapper Valve Screws [#14*] or it will shear off into the Valve Plate [#13*]!

Servicing the Valve Plate Assembly (Bottom-Side)

1. If you are replacing a Flapper Valve [#12*] on the bottom side of the Valve Plate [#13*] (side facing the compressor housing), remove the Flapper Valve Screws [#14*] with a Standard Phillips Screwdriver (+), lift off the Valve Keeper Strip [#11*].
2. Clean any debris with a soft, damp cloth. Turn the compressor head upside down and place the Valve Plate [#13*] on the compressor head and orient it as illustrated. Note the position of the valve ports and the location of the power leads on the compressor housing.

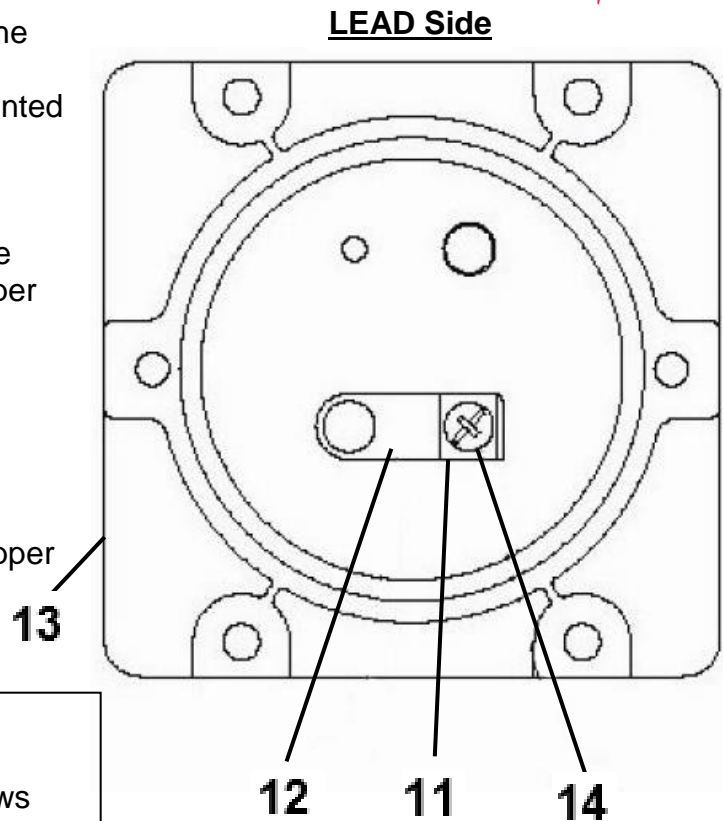


3. Orient a Flapper Valve [#12*] over Port 2. Observe the location of the Notches [✱] at the end of the Flapper Valve [#12*].



**Refer to the service parts list on the exploded diagram for correct replacement part number*

4. Place a Valve Keeper Strip [#11 *] over the Flapper Valve [#12*], observing that the radius of the Valve Plate [#13*], and oriented as shown in the illustration.
5. Line up the screw holes in all of the valve components and fix them upon the Flapper Valve [#12*] with Flapper Valve Screws [#14*].
6. Make sure the Flapper Valve [#12*] is centered over Port 2 and that the Valve Keeper Strip [#11 *] lines up with the Flapper Valve [#12*].



Caution:

Do not over-tighten the Flapper Valve Screws [#14*] or it will shear off in the Valve Plate [#13*].

7. Tighten the Flapper Valve Screws [#14*] with a Torque Wrench with an Nm Scale (Newton Meter) to **1.4 Nm**.

**Refer to the service parts list on the exploded diagram for correct replacement part number*



Attention:

If you are replacing only the Flapper Valve(s) [#12*], see the assembly instructions on pages 10–13.

If you are replacing the Piston Cup [#2*], Piston Cup Retainer [#4*], and Cylinder Sleeve [#5]; turn to the Rebuilding Connecting Rod Assemblies Section found on pages 14 – 17.

Servicing the Connecting Rod & Eccentric Assemblies

Refer to the Preventive Maintenance and Troubleshooting Guide in this manual to determine whether it's component parts need to be serviced, or if a complete Connecting Rod & Eccentric Wheel & Bearing Assembly [#1 *] needs to be replaced.

Component Parts Required

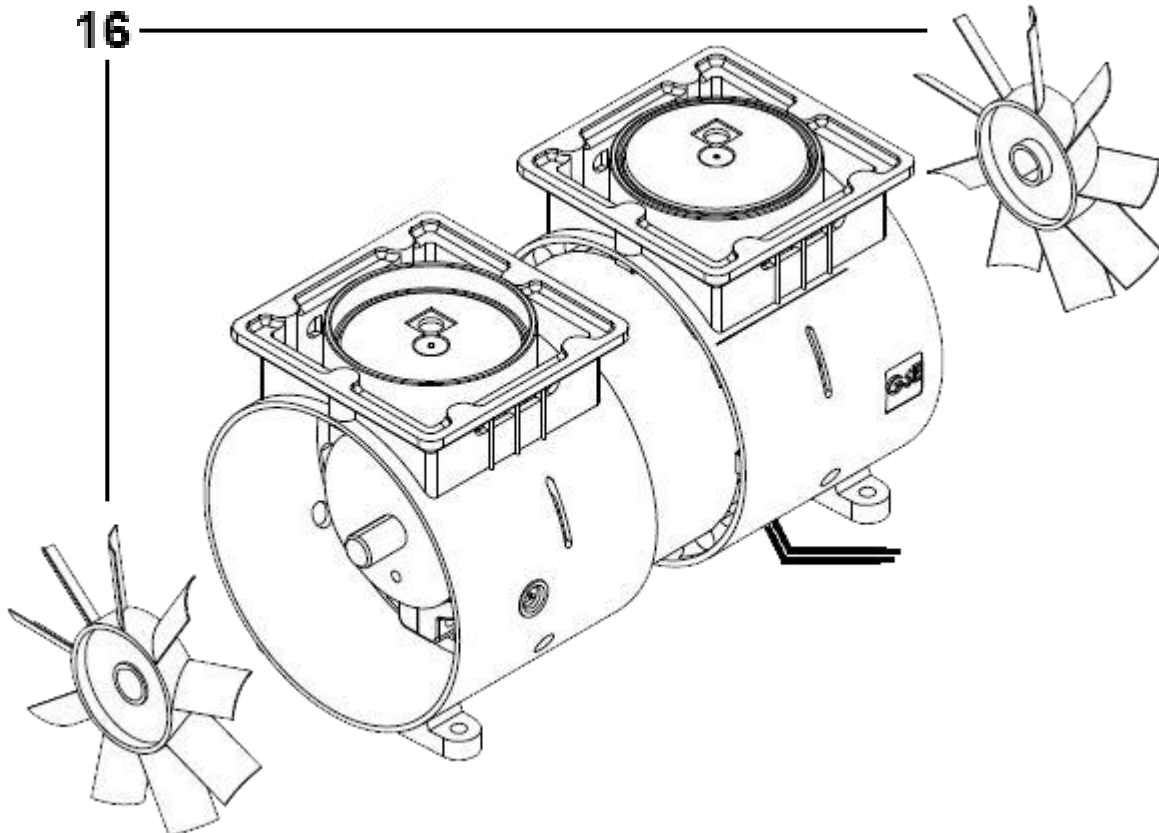
You will need:

- Connecting Rod & Eccentric Wheel & Bearing Assembly [#1 *], or Piston Cups [#2 *] and Cylinder Sleeves [#5 *].
- O-Ring(s) for Valve Plate [#15 *].
- O-Rings for Head (*Head Gasket*) [#7 *], if defective.

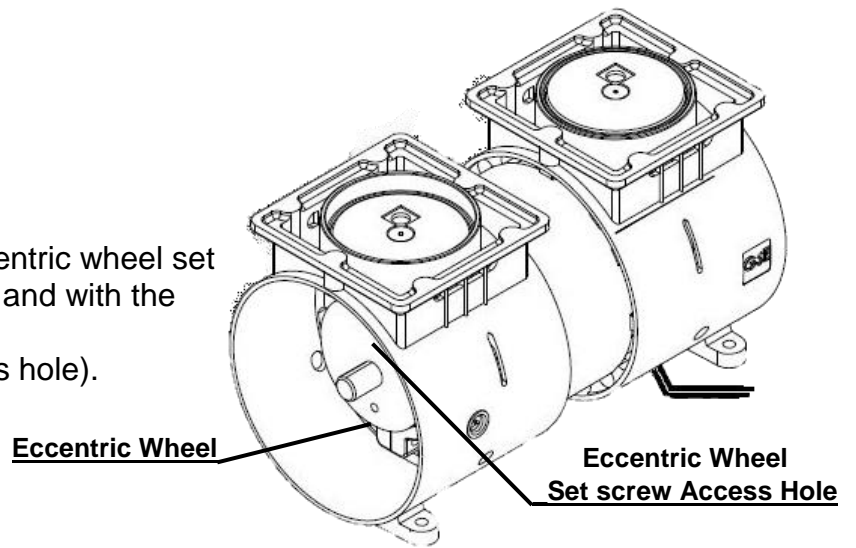
Connecting Rod & Eccentric Wheel Assembly Removal

NOTE: ONLY REMOVE ONE CONNECTING ROD ASSEMBLY AT A TIME!

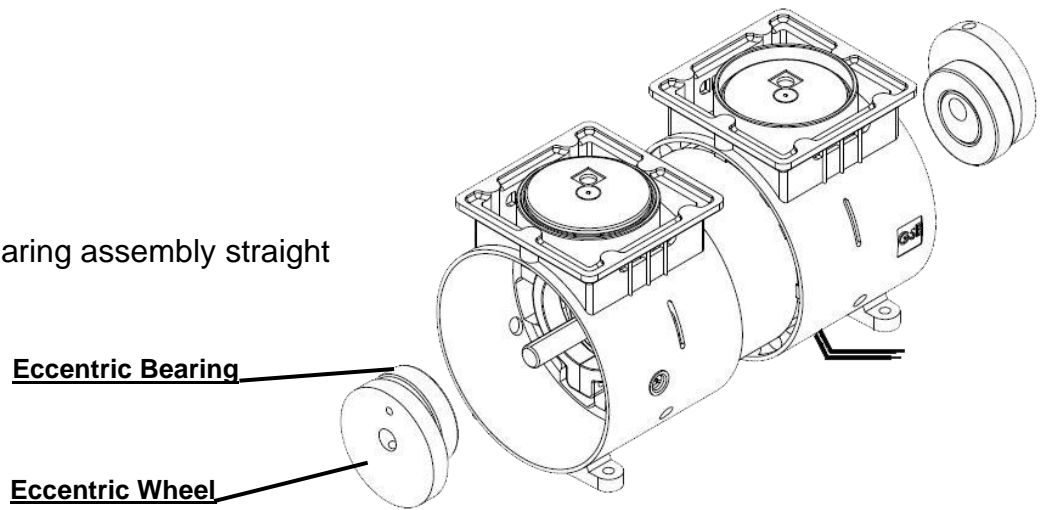
1. Carefully remove the Fan [#16] by pulling it straight off the motor shaft. Do not pull the fan blades!



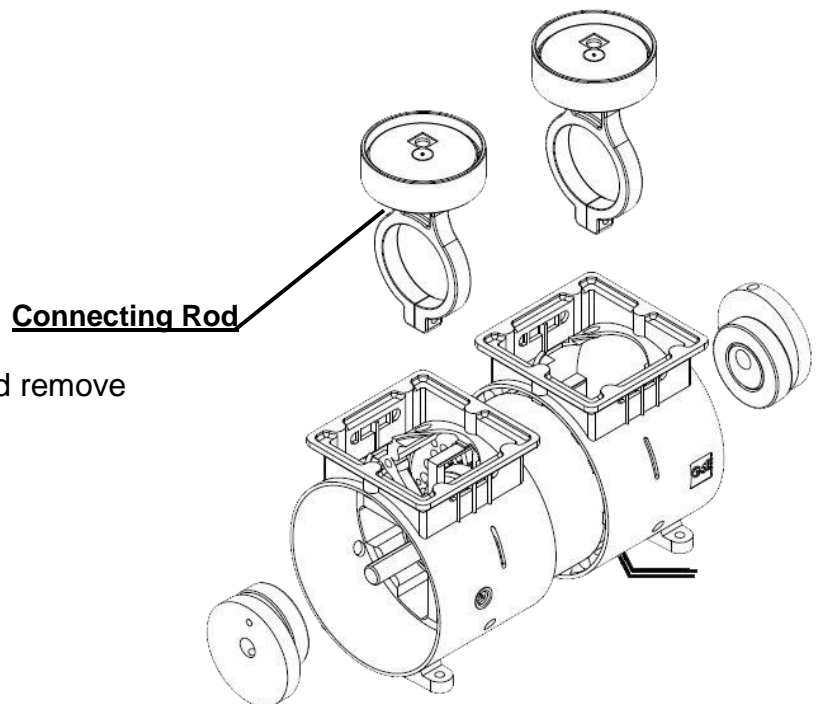
- Turn the motor shaft to align the eccentric wheel set screw with the connecting rod screw and with the hole of the housing.
(See illustration for location of access hole).



- Slide the eccentric bearing assembly straight off the shaft.



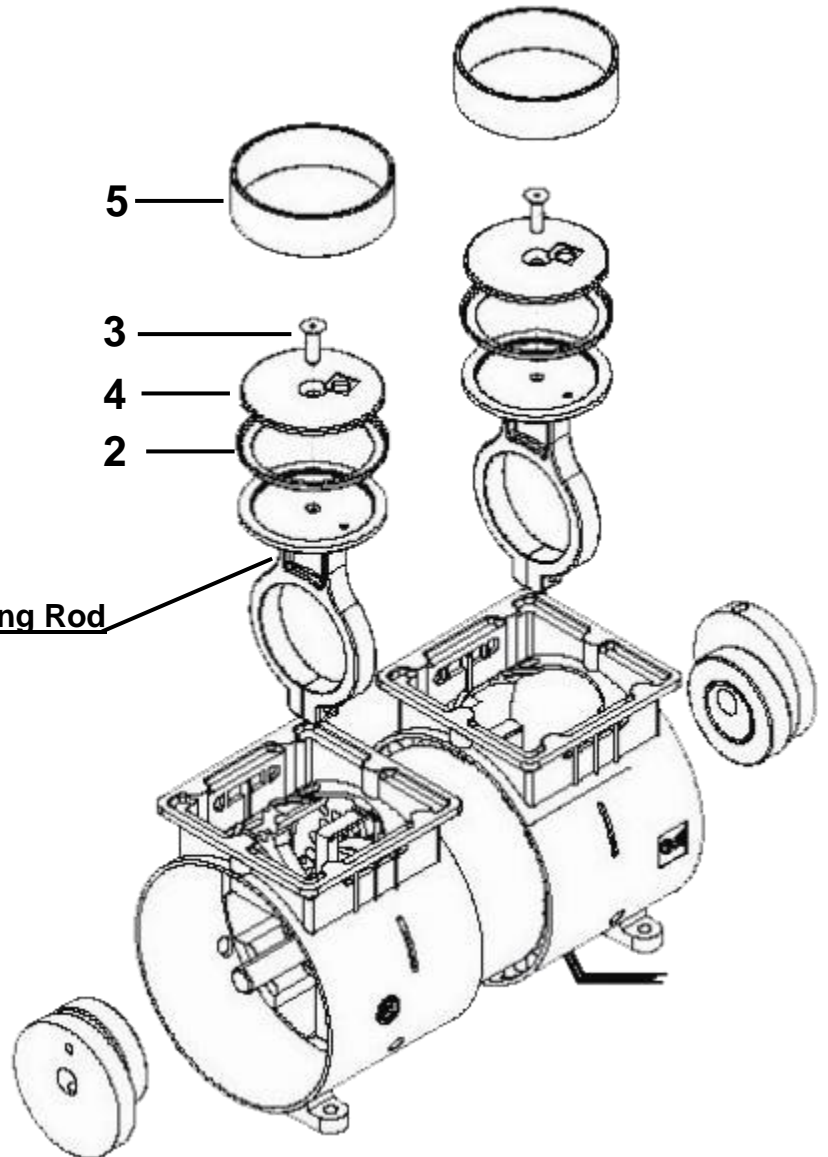
- Slide and rotate the connecting rod and remove it from its housing.



Rebuilding Connecting Rod Assemblies

If you are rebuilding the Connecting Rod Assembly [#1*] using component parts, follow this procedure:

When replacing the Piston Cup [#2*], be sure to replace the Cylinder Sleeve [#5*] at the same time. Place the Connecting Rod the fixture before attempting to remove the Piston Cup Retainer Screws [#3*]. Heat will help to dissolve the Loctite bond.



1. Remove the Piston Cup Retainer Screws [#3*] from the Piston Cup Retainer [#4*].
2. Remove the Piston Cup Retainer [#4*] from the Connecting Rod.
3. Remove the old Piston Cup [#2*] and discard.
4. Place the new Piston Cup [#2*] on the Connecting Rod.
5. Place a Piston Cup Retainer [#4*] on the Piston Cup [#2*], making sure the Boss of the Piston Cup Retainer [#4*] is seated in the pilot of the Connecting Rod.

Note: Both Connecting Rods shown for orientation purposes only. Do NOT have both Connecting Rods removed at the same time.

6. Insert the Piston Cup Retainer Screws [#3*] into the Connecting Rod and tighten to 3.0 N.m with a Torque Wrench with a Nm Scale (Newton Meter).

**Refer to the service parts list on the exploded diagram for correct replacement part number*

⚠ Caution:

Do not damage the Piston Cup [#2*] when you remove the Connecting Rod from the compressor housing. If the Piston Cup [#2*] is damaged, you must replace it.

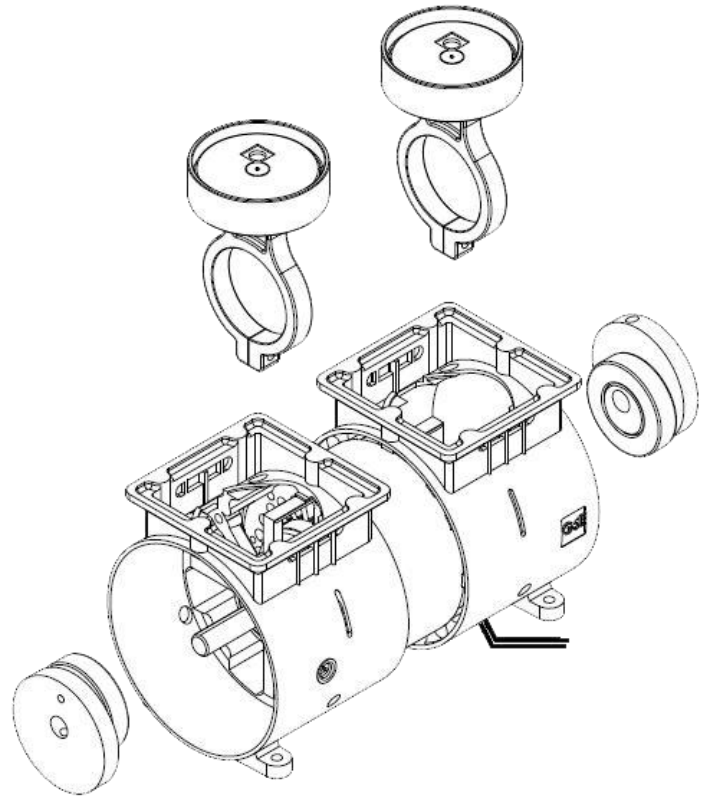
⚠ Attention:

To replace the Connecting Rod & Eccentric Wheel and Bearing Assembly continue to page 17.

Assembly of the Connecting Rod to the Compressor

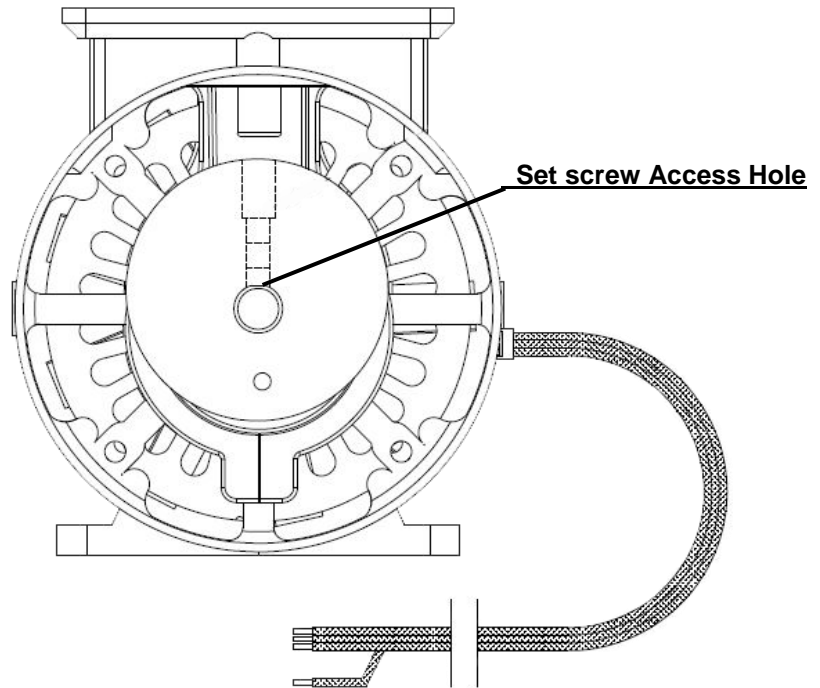
1. Put Cylinder Sleeve [#5*] into the trough of its housing, while keeping the Connecting Rod vertical, and fasten the Connecting Rod screw to the face of the housing.

2. Replace Eccentric Bearing on to the Connecting Rod Bearing. Replace the Eccentric Wheel on to the shaft. Rotate the Eccentric Wheel to line up the set screw with access hole in bottom of housing. Tighten screw to 4 – 4.5 Nm. using a Torque Wrench with a Nm Scale (Newton Meter).



Note: Both Connecting Rods shown for orientation purposes only. Do NOT have both Connecting Rods removed at the same time.

3. Rotate the shaft with Connecting Rod to check for up and down movement. If the Connecting Rod can move without any obstacle impeding its moment, then use an Allen Key (S3) to tighten Connecting Rod screw.



*Refer to the service parts list on the exploded diagram for correct replacement part number

Reassembling the Compressor

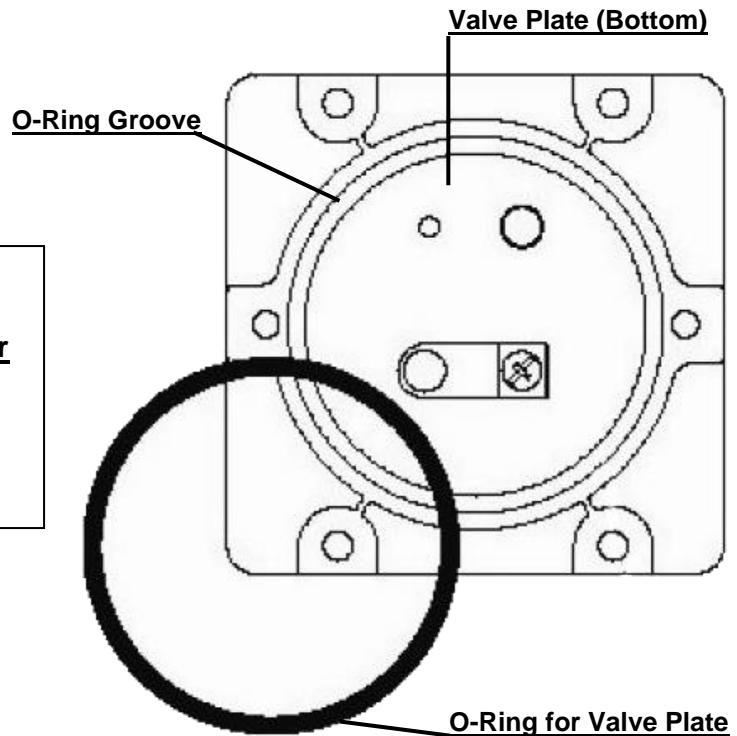
After the connecting rod assembly and eccentric are correctly assembled, you can assemble the valve plates and bead to the compressor.



Caution:

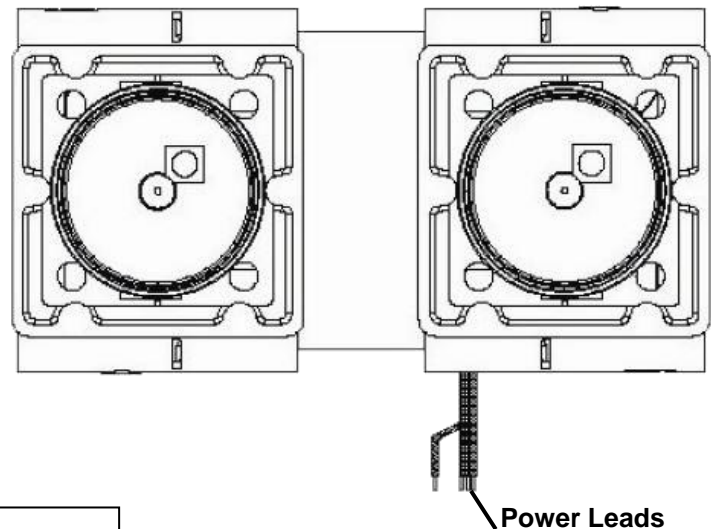
To prevent damage to the compressor, **never** apply lubricant or sealant to the O-Rings, or to **any** component in your compressor!

All moving parts are permanently lubricated.



1. Insert the O-Ring for Valve Plate [#5*] into the O-ring groove located on the bottom of the Valve Plate [#13*].

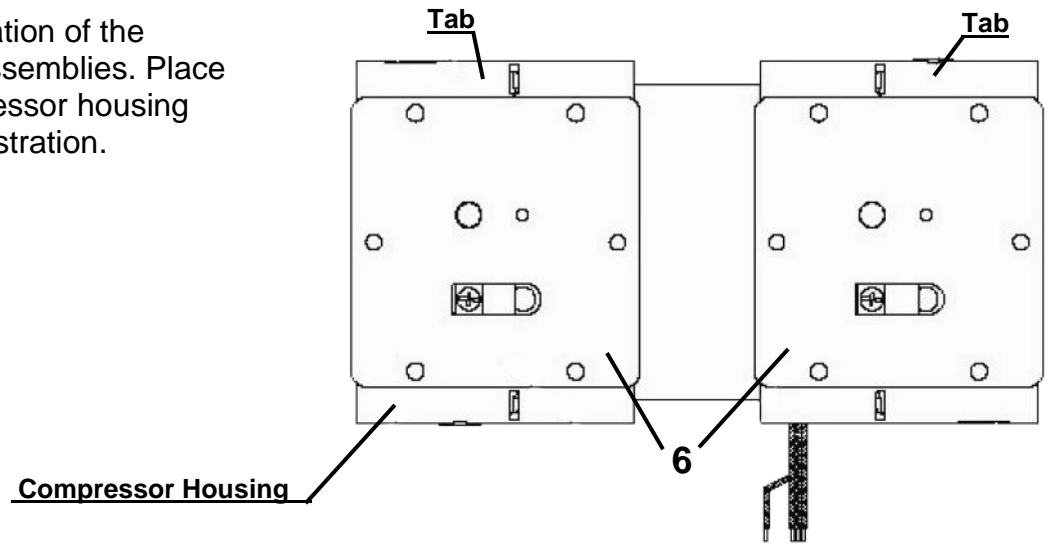
2. Position the compressor housing as shown in the illustration. Notice the orientation of the power leads.



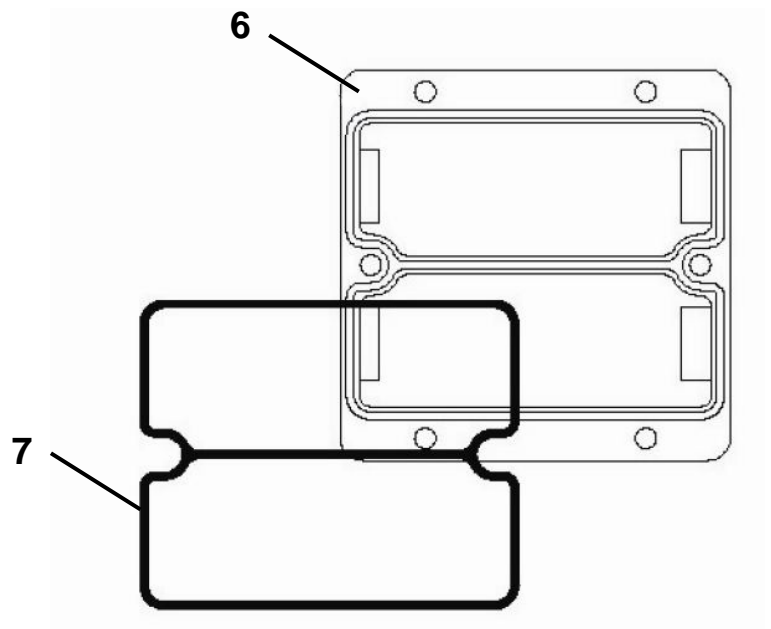
Note: Make sure that the connecting rod sleeves are seated against the compressor housing.

*Refer to the service parts list on the exploded diagram for correct replacement part number

3. Observe the orientation of the Valve Plate [#7*] assemblies. Place them on the compressor housing as shown in the illustration.



4. Insert two new O-Rings for Head (head gaskets) [#7*] into the groove located on the bottom of the Head [#6*].



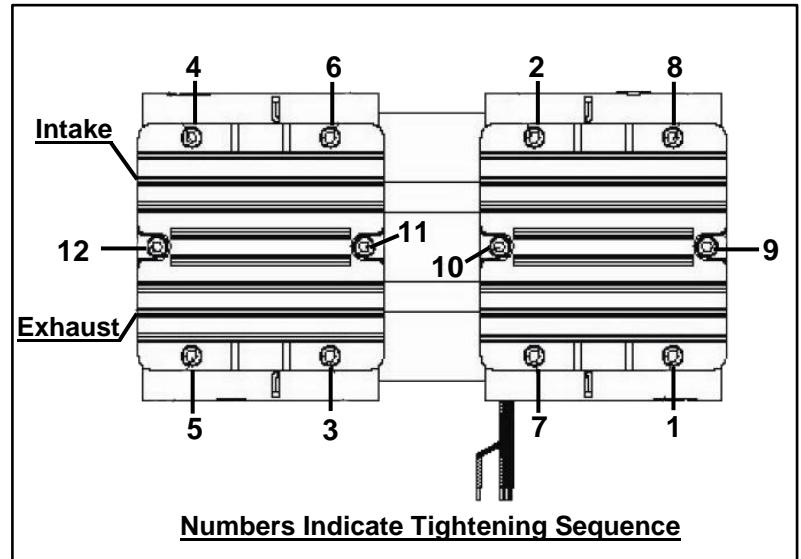
Note: Ensure the Valve Plate [#13*] is properly engaged to housing locators.

Note: Ensure that O-Rings for Head (head gaskets) [#7*] are aligned in the O-Ring Grooves and are not pinched.

*Refer to the service parts list on the exploded diagram for correct replacement part number

- Place the Head [#6*] on the Valve Plate [#13*] Assemblies. Observe the position of air intake and exhaust in the illustration.

Note: Make sure that O-Rings for Head (head gaskets) [#7*] are not pinched.



- Insert the Head Screws [#8*] and hand-tighten each screw until it is snug. Tighten each Head Screw [#8*] to 4 – 4.5 Nm. using a Torque Wrench with a Nm Scale (Newton Meter)

! Caution:

To avoid property damage or personal injury, ensure the compressor is not connected to the power source. Always try rotating the fan by **HAND**, prior to connecting the unit to the power source. Check for suction at the air inlet port by placing your finger over the port as you turn the fan. You should feel a slight suction with each rotation of the fan. If you don't feel suction, or if you feel or hear a thump as you turn the fan, **DO NOT CONNECT THE UNIT TO A POWER SOURCE**; review the assembly procedure for possible error.

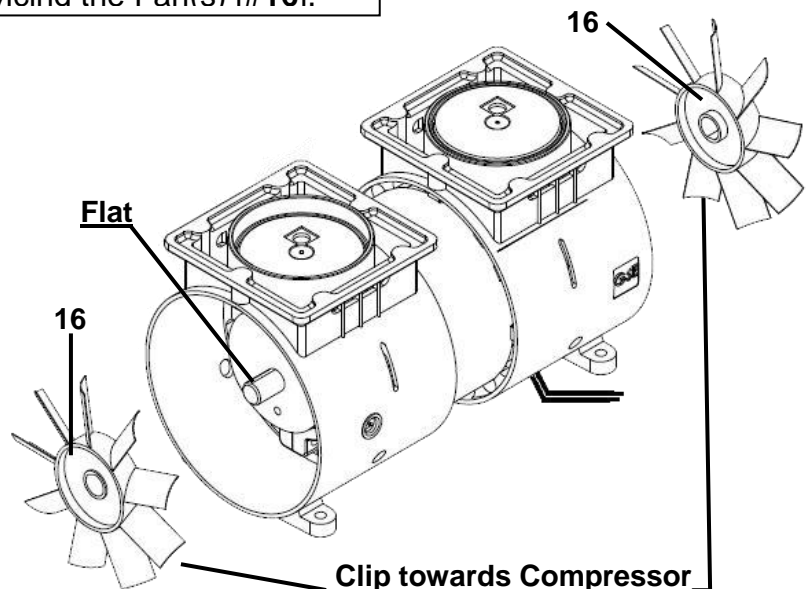
Servicing the Fan

! Caution:

To avoid serious injury, always ensure the compressor is not connected to the power source when servicing the Fan(s) [#16].

If one of the fans, or both, happens to break, use the following procedure:

- Carefully remove the Fan [#16*] by pulling it Straight off the motor shaft.
- Align the flat-part of the motor shaft with the flat-part on the Fan [#16*] and slide the Fan [#16*] back on the motor shaft, making sure the fan clips face towards compressor as shown.



*Refer to the service parts list on the exploded diagram for correct replacement part number

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Anjon Manufacturing
1000 Liberty Industrial Drive
O'Fallon, MO 63366
636-300-8165
www.anjonmfg.com

